One Health Partners Monthly COVID-19 Webinar

Coordinated by the CDC One Health Office,

in partnership with the One Health Federal Interagency

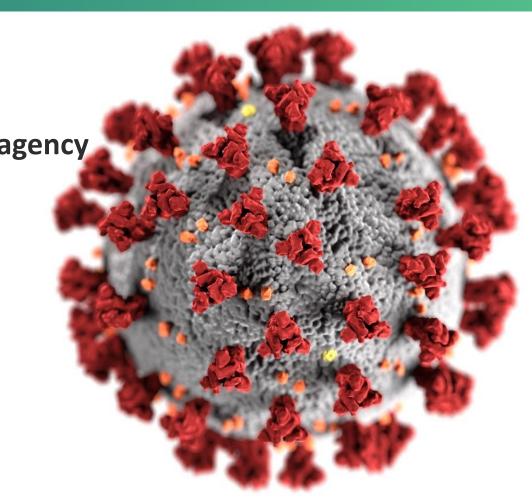
COVID-19 Coordination (OH-FICC) Group

OneHealth@cdc.gov

April 20, 2021







cdc.gov/coronavirus

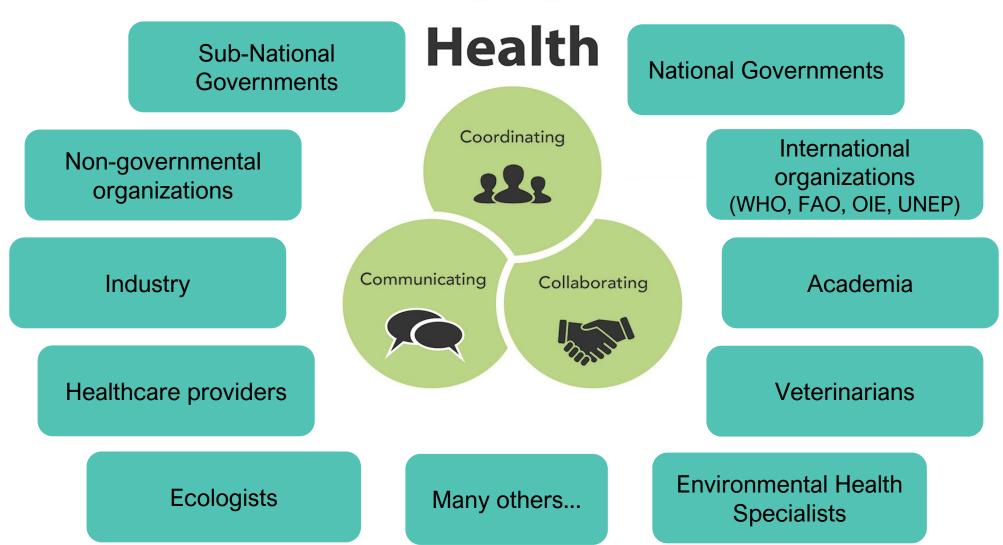
One Health Partners Monthly COVID-19 Webinar

Purpose:

- Share news and key updates, guidance, and resources on One Health aspects of COVID-19
- Summarize animal cases of SARS-CoV-2 infection in US and globally
- Provide updates on ongoing coordination around One Health aspects of COVID-19 in US



One Health Partner Collaborations During COVID-19 Response One



One Health and COVID-19 in the News

A sick cat at the San Diego Humane Society. Cats and dogs have been found harboring the B.1.1.7 SARS-CoV-2 DREHSLER/AFP VIA GETTY IMAGES

Covid: Will your pet need a coronavirus vaccine?

Major coronavirus variant found in pets for first time

By David Grimm | Mar. 19, 2021, 4:10 PM

CORONAVIRUS | Mar 26, 2021, 10:16am EST

From Cats And Dogs To Minks And Mice, Covid-19 Variants Are **Infecting The Ecosystem**

ANIMALS | WILDLIFE WATCH

What the mink COVID-19 outbreaks taught us about pandemics

PUBLISHED APRIL 5, 2021 IN WORKING@DUKE

PETS KEEP US PAWS-ITIVE **DURING THE PANDEMIC**

Scientists Scanning Household Jan 26, 2021, 12:59pm EST Pets for COVID-19

Covid Killed A Tiger. Are Your House Cats At Risk?

> Pollution fears over mink buried after Covid culling in Denmark

Furry friends help Germans ease Covid-19 pandemic blues

Signs of pollution detected at burial sites but no water contamination, says environmental agency

- Coronavirus latest updates
- See all our coronavirus coverage

Total US COVID-19 Human Cases by State/Territory

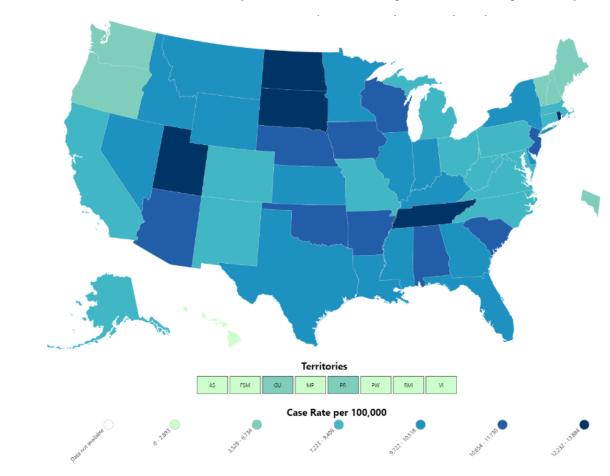
as of April 19, 2021

TOTAL CASES
31,484,148
+46,032 New Cases

CASES PER 100,000 PEOPLE 9,483

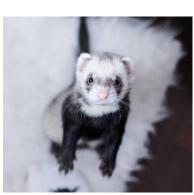
TOTAL DEATHS
564,292
+355 New Deaths

COVID-19 Case Rate in the US Reported to the CDC, by State/Territory (cases per 100,000)



Animal Species Naturally Infected with SARS-CoV-2 Globally

- Cats
- Dogs
- Tigers
- Lions
- Snow leopards
- Gorillas
- Wild caught mink
- Puma
- Pet Ferret
- Farmed mink



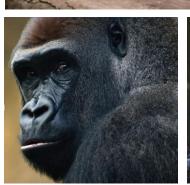
















Animals Positive for SARS-CoV-2: Globally by Species

as of April 19, 2021

280 animals from 25 countries*

• Cats: 132

Dogs: 107

• Tigers: 15

Lions: 15

Snow leopards: 3

Cougar: 3

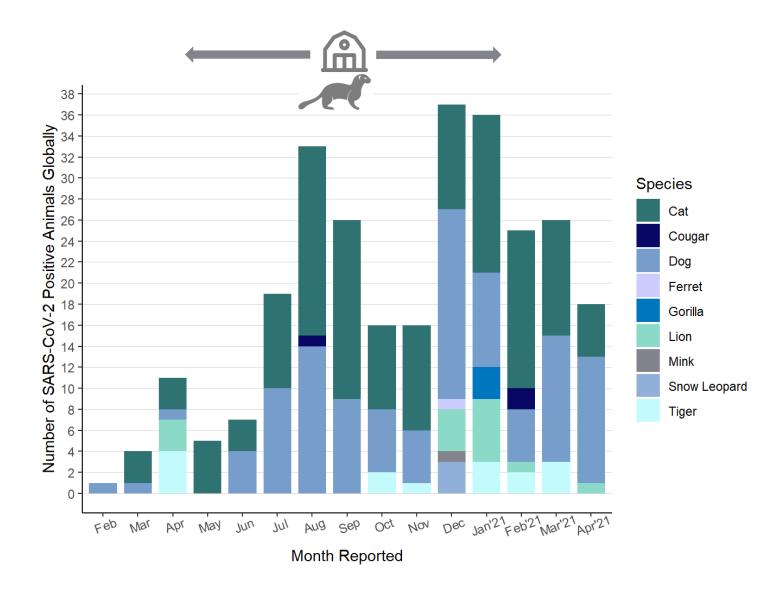
Gorillas: 3

Wild caught mink: 1

Pet ferret: 1

423 mink farms in 12 countries

*Does not include individual numbers of positive farmed mink



Data as of April 19, 2021: OIE: World Organization for Animal Health; USDA APHIS | Cases of SARS-CoV-2 in Animals in the United States

Countries Reporting SARS-CoV-2 Positive Animals

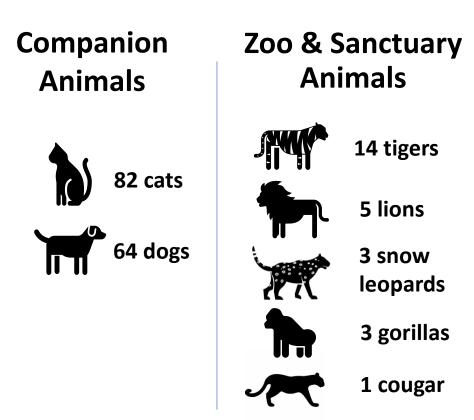
as of April 14, 2021



Data as of April 14, 2021: OIE-WAHIS

US Animals Confirmed with SARS-CoV-2 by Species

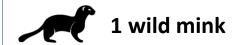
as of April 19, 2021



Production Animals: Mink Farms



Wildlife



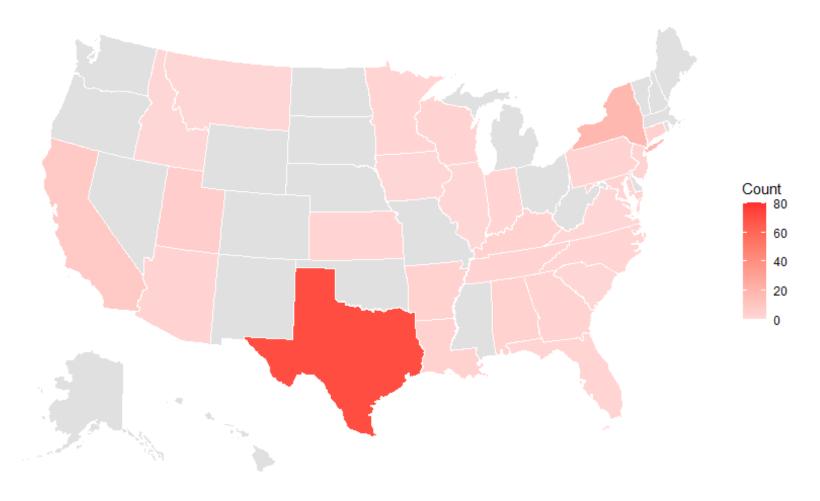
^{*}Some or all animal cases detected through planned and targeted active surveillance investigations where animals had known or suspected exposures to SARS-CoV-2 through infected people or animals. Does not include individual number of positive farmed mink.

US Animals with SARS-CoV-2 by State

as of April 19, 2021

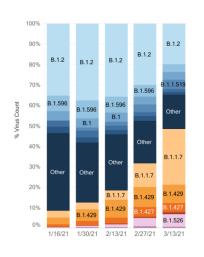
173 animals (62% of global total) in United States confirmed positive for SARS-CoV-2

13 presumptive positive animals

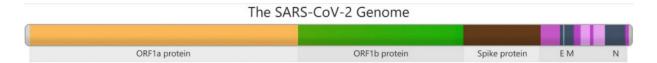


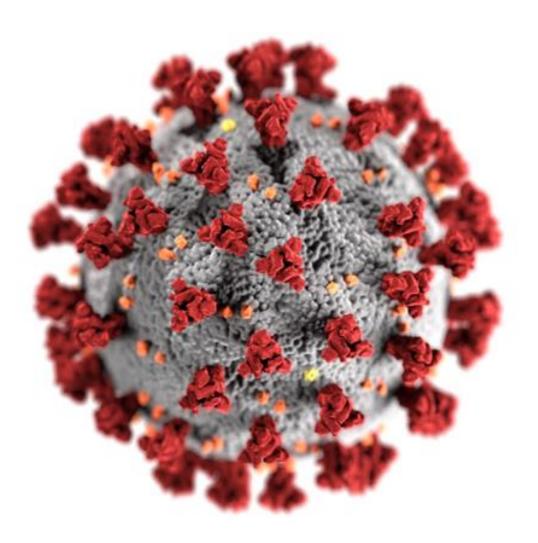
^{*}Some or all animal cases detected through planned and targeted active surveillance investigations where animals had known or suspected exposures to SARS-CoV-2 through infected people or animals. Does not include mink farms or individual number of positive farmed mink.

SARS-CoV-2 Variants in Animals









First SARS-CoV-2 B.1.1.7 Variant Detected in US Pets

- 1 dog and 1 cat
- Active surveillance
- Owners tested positive for COVID-19
- Both animals recovered



COVID-19

Texas A&M Research Uncovers First Known COVID-19 UK Variant In Animals

The variant was detected in a dog and cat in Brazos County.

By Jennifer Gauntt, Texas A&M University College of Veterinary Medicine & Biomedical Sciences • MARCH 15, 2021

SHARE (f

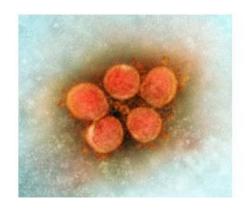






The United Kingdom variant (B.1.1.7) of SARS-CoV-2, the virus that causes COVID-19, has been detected for the first time in a dog and a cat from the same household in Brazos County, Texas, as part of a study led by researchers at Texas A&M University.

The first reported finding of the B.1.1.7 human variant virus in any animal worldwide, this detection of the UK variant in animals in a natural household setting reinforces the importance of having procedures in place to monitor the SARS-CoV-2 viral genome as it crosses species barriers, giving specialists both insight and time to study potential new variants before they spread through animal or human populations.



SARS-CoV-2 Variants in Animals Detected Globally

- Italy
 - B.1.1.7 in a cat
- United Kingdom
 - B.1.1.7 in dogs and cats
- Highlights the importance of surveillance and sequencing

British COVID-19 variant found in cat in Italy

Symptoms appeared some 10 days after owners got sick

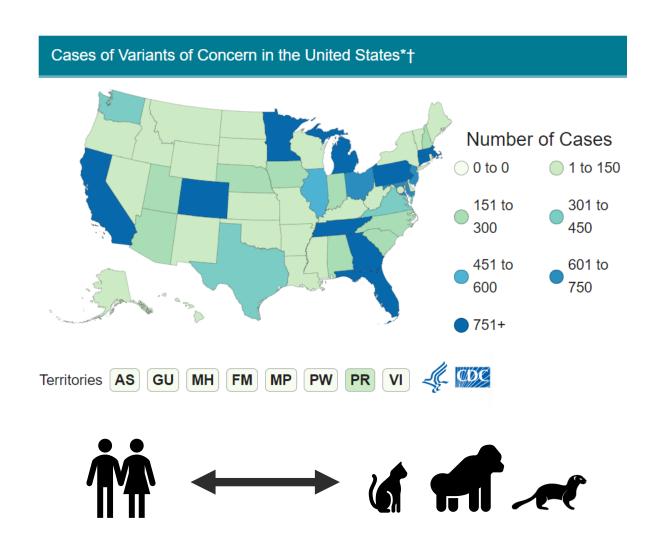
Redazione ANSA PROME 18 March 2021 15:20 NEWS



SARS-CoV-2 Interagency Group (SIG)

One Health Genomics Working Group Objectives

- Transmission dynamics in animal populations & between human & animal populations;
- Risks associated with host shift events in the emergence of new viral strains;
- Research & science needed to evaluate how the zoonotic nature of SARS-CoV-2 will impact human and animal populations;
- Other relevant topics as needs arise



Asian Small-Clawed Otters at Georgia Aquarium Test Positive for COVID-19

APRIL 18, 2021

Asian Small-Clawed Otters at Georgia Aquarium Test Positive for COVID-19



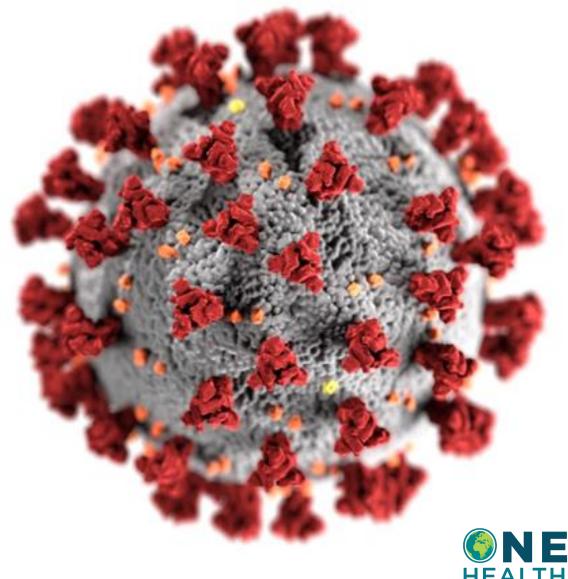


Our Asian small-clawed otters have tested positive for SARS-CoV-2, the virus that causes COVID-19. They showed mild symptoms: sneezing, runny noses, lethargy, & coughing. We're happy to report they're doing well & expected to recover. They're off exhibit & being cared for.



SARS-CoV-2 and Big Cats





Big Cats Testing Positive for SARS-CoV-2 Globally



Big Cats Testing Positive for SARS-CoV-2 in the US

9 facilities



14 tigers



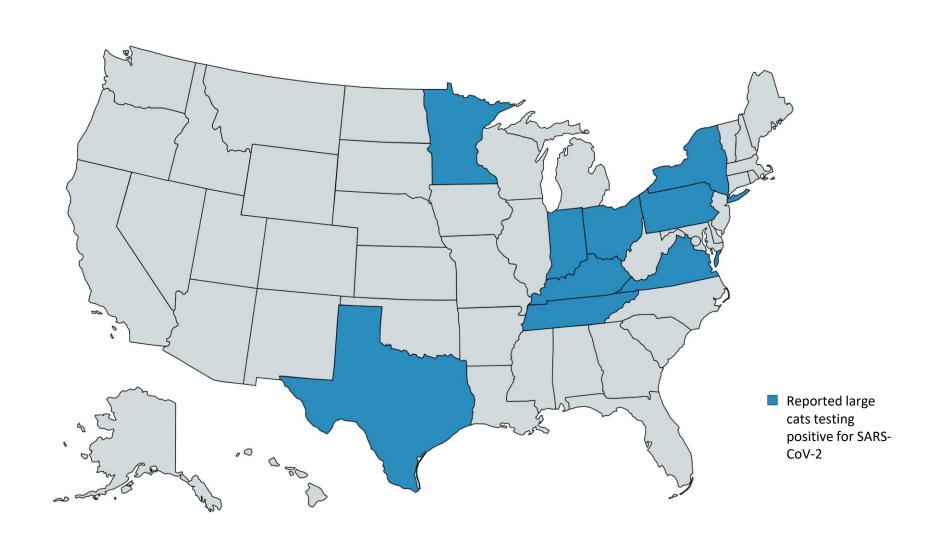
4 lions



3 snow leopards



1 puma



WHO- Convened Global Study of Origins of SARS-CoV-2: China Part

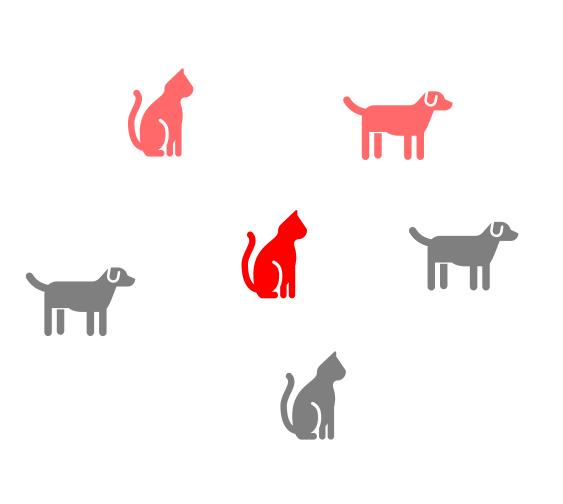
Joint WHO-China study: 14 January - 10 February 2021

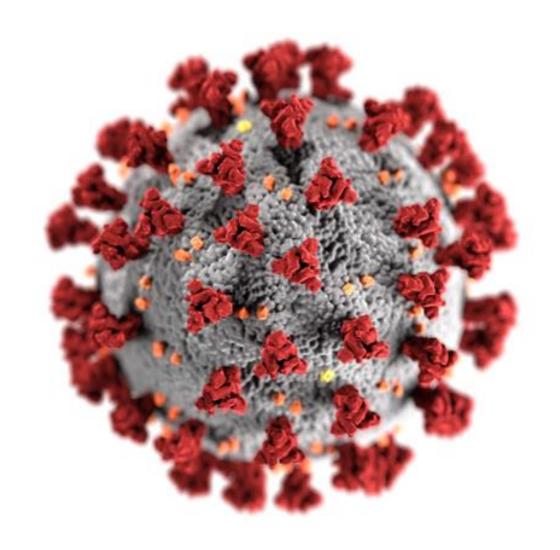
- Introduction through an intermediate host followed by zoonotic transmission considered to be likely to very likely
- Direct zoonotic transmission (also termed: spillover) was listed as possible to likely
- Joint Statement on the WHO-Convened COVID-19 Origins Study -United States Department of State



US Natural SARS-CoV-2 Infections in Companion Animals

Clinical Signs and Epidemiology

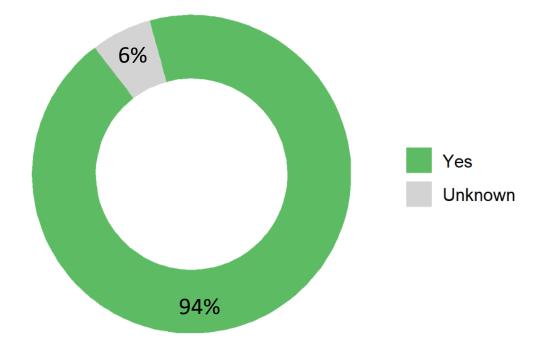




Companion Animals Analysis

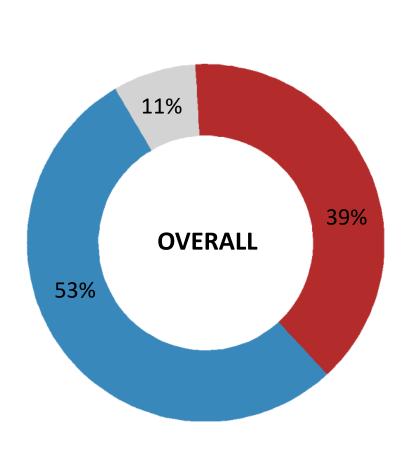
Epi Links to COVID-19

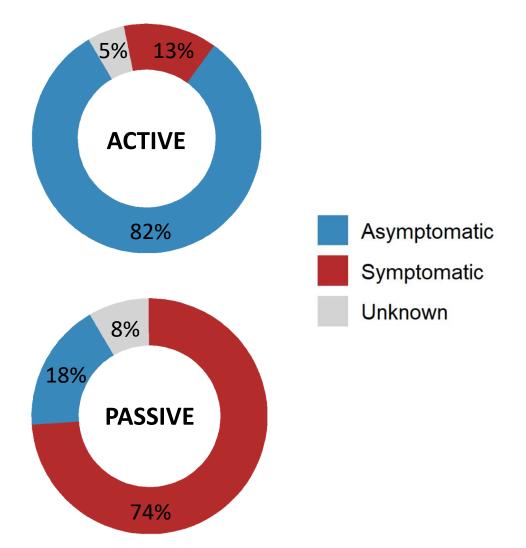
- 137 of 146 companion animals had a known exposure to a person with COVID-19
 - Primarily the owner
 - 9 animals had unknown histories.



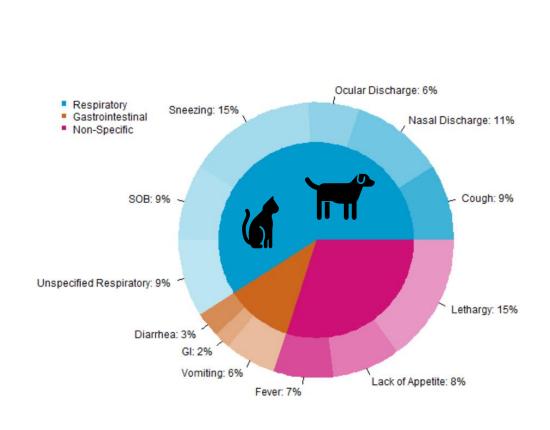
Companion Animals Analysis

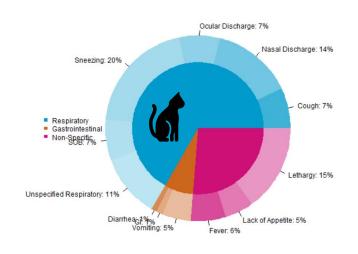
Clinical presentation in SARS-CoV-2 infected animals

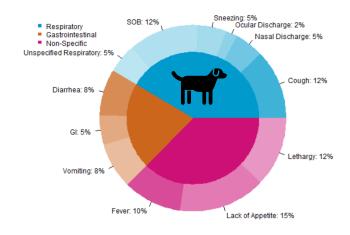




Clinical Presentation in SARS-CoV-2 Infected Animals



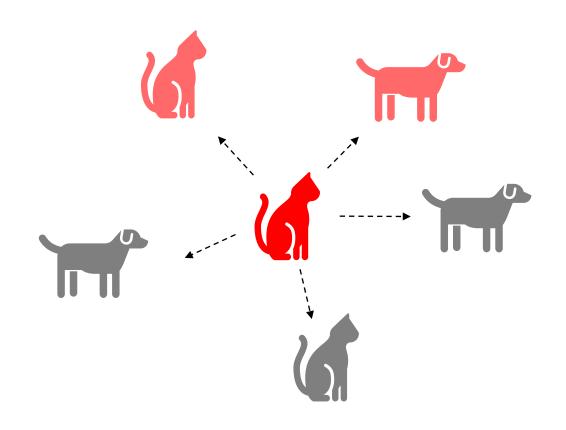




Companion Animals Analysis

Probability of infection in multi-pet households

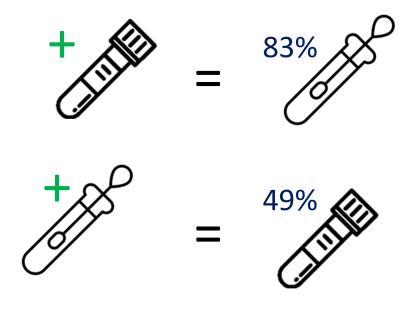
• 42% probability (CI 29-58) that if one animal in a household is positive for SARS-CoV-2, others in the household are too



Confirmed Positive Animals Analysis

Association between virus detection and antibodies

- 83% probability (CI 67-92) that when an animal is positive by virus neutralization, it will also be positive by PCR
- 49% probability (CI 37-62) that when an animal is positive by PCR, it will also be positive by virus neutralization



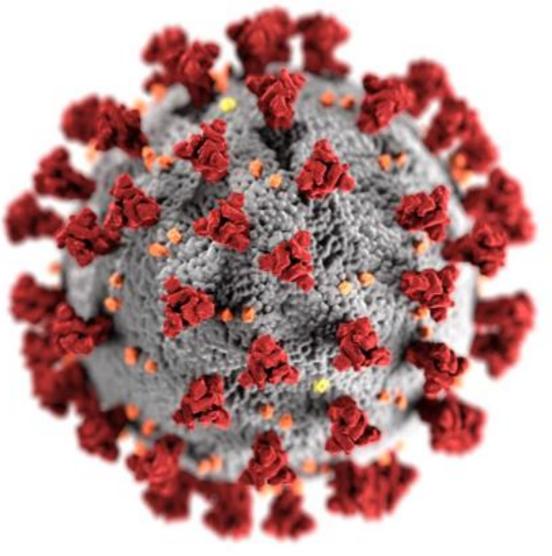
Severe Outcomes of SARS-CoV-2 in Companion Animals

- ZOHU presentation: "Investigation of Severe Outcomes of SARS-CoV-2 Infection in Companion Animals"
 - Evaluation of 10 animal cases of severe outcomes
 - Describes algorithm developed to evaluate cases, application to cases
 - Clinical signs, comorbidities, diagnostic results
- Severe disease in companion animals as a result of SARS-CoV-2 infection is rare
 - (2 [2%] of 94 cases)
- Recording to be posted at: Severe Outcomes of SARS-CoV-2 in Companion Animals



SARS-CoV-2 and Mink





What We Know About SARS-CoV-2 and Mink

- Mink are highly susceptible to SARS-CoV-2
- Mink can spread SARS-CoV-2 to mink and other animals in the farm environment (dogs, cats, wild caught mink)
- Extra precautions must be taken to protect mink and people on farms



Mink Farms Confirmed with SARS-CoV-2 Globally

as of April 14, 2021

423 mink farms in 12 countries

Denmark: 290

Netherlands: 69

• Greece: 23

United States: 16

Sweden: 13

Canada: 2

Lithuania: 2

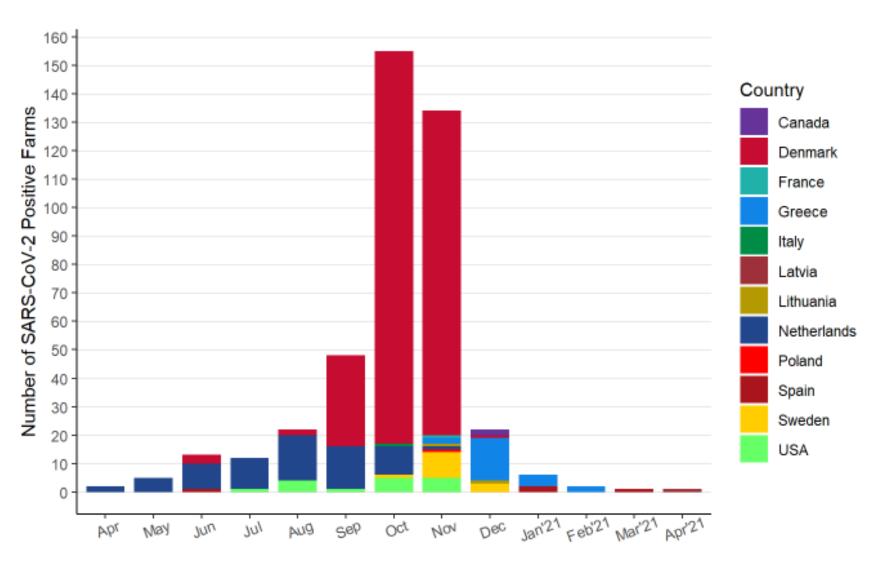
Spain: 4

Italy: 1

France: 1

Poland: 1

Latvia: 1



What are One Health Partners Doing?

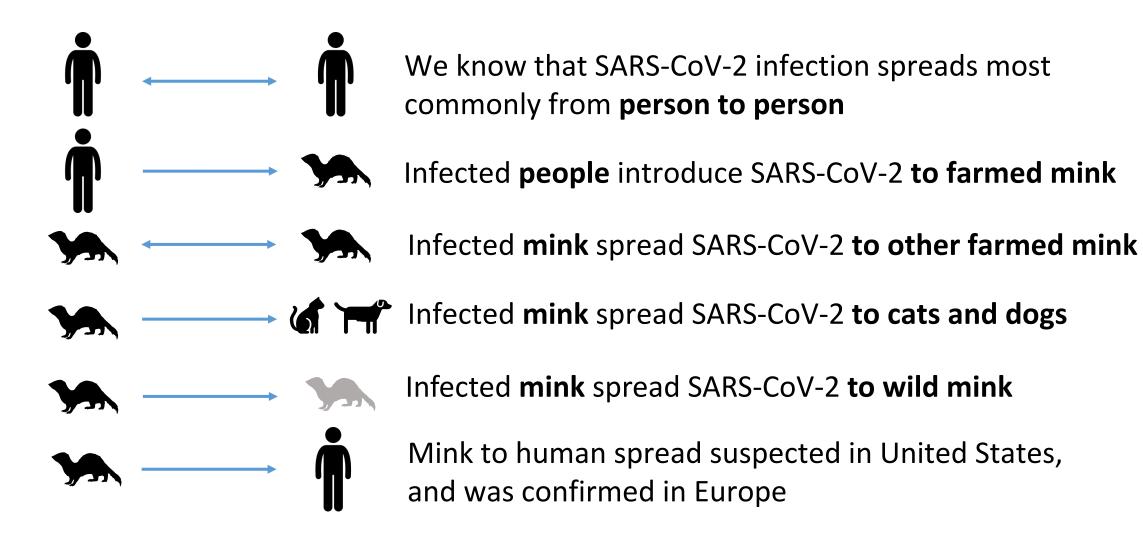
- On-farm investigations led by CDC in collaboration with state officials
- Laboratory confirmation at U.S. Department of Agriculture National Veterinary Services
 Laboratories
- Comparative analysis of SARS-CoV-2 sequences
- Generating guidance, recommendations, and toolkits
- Hosting worker safety webinars for mink farm workers and processors
- Addressing gaps in active surveillance for mink farms



Link to ZOHU Call recording:

<u>Utah Mink Farm Investigations</u>

US Farm Investigations: Initial Findings



PRELIMINARY DATA: SUBJECT TO CHANGE

Public Health and Animal Health Recommendations



Screen and restrict access to the farm and buildings where animals are kept



6ft ———

Social distance



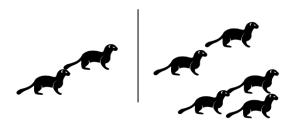
Wear appropriate PPE even if you don't feel sick



Stay home when sick



Clean and disinfect using an EPA-approved disinfectant



Quarantine new mink before introducing to the herd

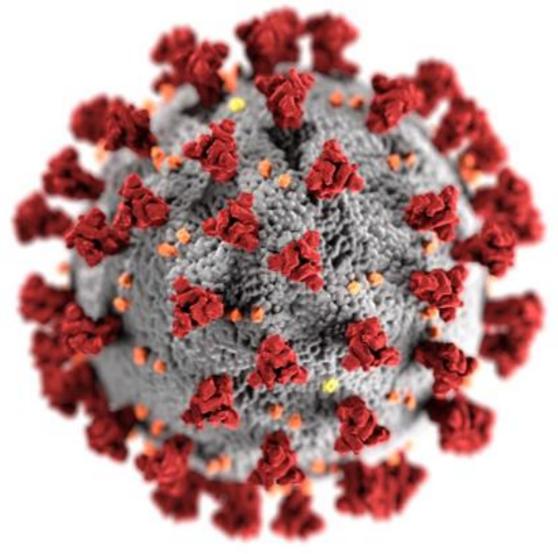
Key Messages on Mink



- No evidence that mink are playing a significant role in the spread of SARS-CoV-2 to people
- For most people in the United States, the risk of SARS-CoV-2 infection from animals is low
 - However, there is a higher risk for people working on mink farms
- Mink farms should follow available guidance for farmed mink and other mustelids to prevent introducing SARS-CoV-2 to mink on farms
- Worker safety is critical to protect people and animals on mink farms
- Mink farm workers with COVID-19 should avoid contact with animals, especially mink

Guidance and Resources



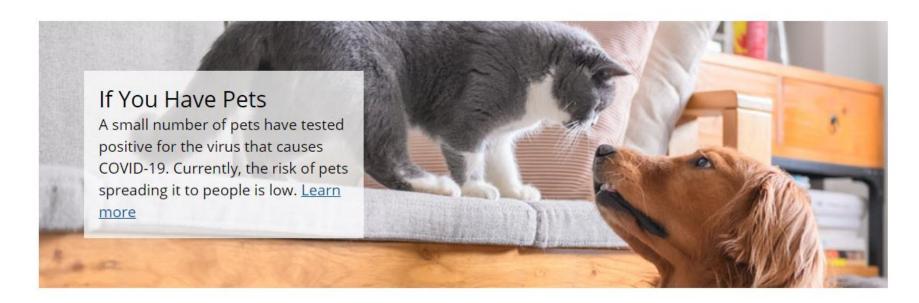


CDC Guidance: Pets and Other Animals Landing Page

Pets and Other Animals

Updated Feb. 11, 2021

Languages *





Animals and COVID-19



If Your Pet Tests Positive



留 If You Have Pets



Handlers of Service & Therapy Animals

Updated: COVID-19 and Animals Webpage

- Reflects new species testing positive for SARS-CoV-2
- New information on SARS-CoV-2 and mink
- Main messaging has **not** changed



Updated: Evaluation for SARS-CoV-2 Testing in Animals

- Streamlined with guidance for SARS-CoV-2 testing in North American wildlife
- Reflects the new confirmatory testing process for animals

Table 1: Criteria to Guide Evaluation and Laboratory Testing for SARS-CoV-2 in Animals

| Criteria | Epidemiological Risk | Clinical Features | |
|----------|---|-------------------|---|
| A | Animal with history of exposure ³ to a person or animal suspected or confirmed to be infected with SARS-CoV-2. | AND | Animal has clinical signs suspicious of SARS-CoV-2 infection. ³ |
| В | Animal with exposure to a known high-risk environment (i.e., where human cases or animal cases have occurred), such as a residence, facility, or vessel (e.g. nursing home, prison, cruise ship). | | |
| С | Threatened, endangered or otherwise imperiled/rare animal ⁴ in a rehabilitation, sanctuary or zoological facility with possible exposure to SARS-CoV-2 through an infected person or animal. | AND | Animal is asymptomatic; OR Animal has clinical signs suspicious of SARS-CoV-2 infection ³ . |
| D | Animals in a mass care or group setting (e.g., farm, animal feeding operation, animal shelter, boarding facility, zoo, or other animal holding) including companion animals, livestock, and other species, where their exposure history to people with COVID-19 is unknown. | AND | A cluster of animals show clinical signs suspicious of SARS-CoV-2 infection. ³ |

Key Messages on Animals and COVID-19

- No evidence animals are playing significant role in spread of COVID-19 to people
- Based on limited information available to date, risk of animals, including pets, spreading COVID-19 to people is considered to be low
- We are still learning about this virus, but it appears it can spread from people to animals in some situations
- If you are sick with COVID-19 (either suspected or confirmed by a test), you should restrict contact with your pets and other animals, just as you would with people
- Talk to your veterinarian if your pet gets sick or if you have any concerns about your pet's health

Stay Up-to-Date with Trusted Resources



COVID-19 and Animals

- Pets and Other Animals
- FAQs: COVID-19 and Animals
- COVID-19 and Animals
- If You Have Pets
- What to Do if Your Pet Tests Positive for the Virus that Causes COVID-19
- Guidance for Handlers of Service and Therapy Animals
- Interim Infection Prevention and Control Guidance for Veterinary Clinics Treating
 Companion Animals During the COVID-19 Response
- Interim Guidance for Public Health Professionals Managing People With COVID-19
 in Home Care and Isolation Who Have Pets or Other Animals
- Toolkit: One Health Approach to Address Companion Animals with SARS-CoV-2
- COVID-19 Recommendations for Pet Stores, Pet Distributors, and Pet Breeding Facilities
- COVID-19 Considerations for Animal Activities at Fairs, Shows, and Other Events
- <u>Evaluation for SARS-CoV-2 Testing in Animals</u>
- Interim Guidance for SARS-CoV-2 Testing in North American Wildlife
- Interim recommendations for intake of companion animals from households where humans with COVID-19 are present
- Recommendations for Disaster Sheltering of Household Pets, Service Animals, and Support Animals during the COVID-19 Pandemic

Federal COVID-19 Websites

- USA.gov
- Coronavirus.gov
- US Department of Agriculture
 - USDA Confirmed Cases of SARS-CoV-2 in Animals in the US
- US Food and Drug Administration
 - https://www.fda.gov/media/139430/download
- US Fish and Wildlife Service
- US Environmental Protection Agency

Partner COVID-19 Websites

- World Health Organization (WHO)
- Food and Agriculture Organization of the United Nations (FAO)
- World Organisation for Animal Health (OIE)
- American Veterinary Medical Association (AVMA)

One Health

- CDC One Health
- CDC Healthy Pets, Healthy People
- CDC Pet Emergency Preparedness
- CDC Pet Disaster Kit
- CDC Pets in Evacuation Centers
- Zoonoses and One Health Updates Call
- USDA One Health

One Health Federal Interagency COVID-19 Coordination Group (OH-FICC)

21 Federal Agencies Representing Multiple Departments Chaired by CDC

Coordination with >130 US Government partners

Purpose: Bring together representatives from key federal agencies representing multiple departments to collaborate to address One Health technical aspects of COVID-19



OH-FICC Agency Representation











































Functions of the OH-FICC

- Share information and timely updates on One Health activities related to COVID-19 response
- Ensure coordinated picture of projects to improve cooperation and improve efficiency of USG resources
- Provide an accessible forum for representatives
- Facilitates connections of operational personnel
- Representatives share information at home agency or department



Five OH-FICC Subgroups and Agency Chairs

Companion Animals (Working Animals) **Animal Diagnostics Wildlife and Zoo** and Testing

Animals

Production Animals (previously Livestock)

Environmental Health



CDC



FDA-CVM, USDA-NVSL



DOI USGS



USDA-APHIS



ATSDR, CDC



One Health State-Federal COVID-19 Coordination Call

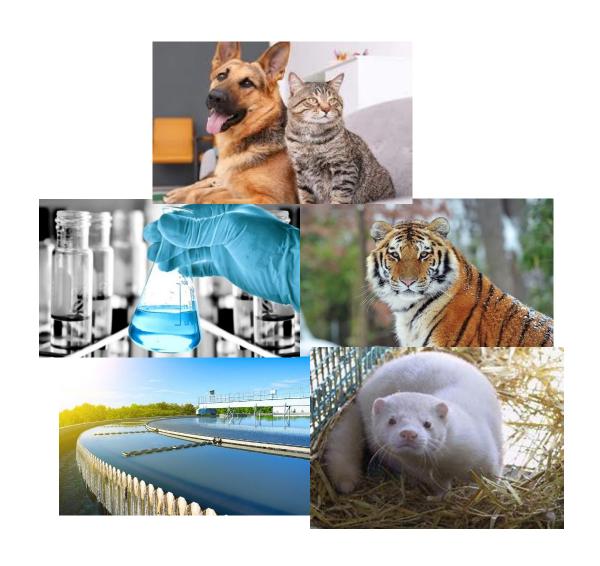
Invitees: State and local public health veterinarians, state animal health officials, state wildlife officials, and federal partners

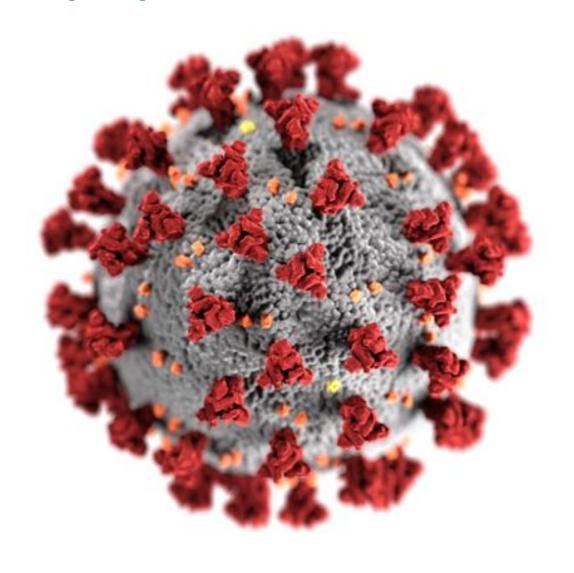
Purpose: Bring together state, tribal, local, territorial, and federal officials on the One Health aspects of COVID-19 to share updates, disseminate information, and address concerns.

Activities: Provided technical support to state partners, collaborated on animal case investigations, sought feedback on guidance needs



One Health Federal Interagency COVID-19 Coordination (OH-FICC) Subgroup Updates





Animal Diagnostics and Testing Subgroup

Companion Animals (Working Animals)



CDC

Animal Diagnostics Wildlife and Zoo and Testing



Animals



DOI USGS

Production Animals

(previously Livestock)



USDA-APHIS

Environmental Health



ATSDR, CDC

Veterinary Laboratory Investigation & Response Network (Vet-LIRN)

- Necropsies
 - Resources <u>www.fda.gov/media/139430/download</u>
 - Facilitating Necropsies for COVIDpositive deceased animals
- Interlaboratory Comparison Exercise (ICE)
 - Assess sensitivity/specificity
 - 50-60 laboratories



Coronavirus Postmortem Examination (Necropsy) Sample Inventory Check List and Photo Log Species: ☐ CN☐ FEL☐ BOV ☐ EQ☐ Othe Notes: The scientific na Sex: M F MN FS Pregnant Breed (no abbreviations) commonly referred to SARS-CoV-2 Status: ☐ ND ☐ Pending ☐ Neg ☐ Pos: ☐ Presumptive ☐ Confirmed to it as SARS-CoV-2. Pos Samples: ☐ Fecal ☐ Oropharyngeal ☐ Nasal ☐ Blood Lab: Necropsy Facility (Name, location) Date of Necropsy Click or tap to enter a date The necropsy sample i Pathologist/Prosector: Phone # collection and tracking, necropsy photos. Items sent: □Sample Inventory List □Necropsy Report □Medical Records/Summary □ Photos General Information Target Swabs and Priority Tissues · For any animal tes confirmatory testing Tissue Sample Sample Disposition Sample Location/Comments This sample inven Oropharyngeal Swab and Swab: □U □BHI □PBS □Sa □Other □FO FR: □4 □-20 □-80 guidance to individ Histo (swab caudal to hard The sample invento forms utilized in cl Swab: □U □BHI □PBS □Sa □Other □FO FR: □4 □-20 □ -80 assessment of col The sample invent Swab: □U □BHI □PBS □Sa □Other FR: □4 □-20 □-80 Tracheal Swab/trachea Swab: □U □BHI □PBS □Sa □Other □FO FR: □4 □-20 □-80 necropsies) or du A complete necrop Bronchus □ L □R □ □FO FR: □4 □-20 □ -80 complete postmo and digestive syste □FO FR: □4 □-20 □ -80 The document can □FO FR: □4 □-20 □ -80 photos of the chec Mediastinal Lymph Node □FO FR: □4 □-20 □ -80 Mesenteric Lymph Node □FO FR: □4 □-20 □ -80 Necropsy and Ancillar Safety of the collection □FO FR: □4 □-20 □ -80 be donned prior t Heart □FO FR: □4 □-20 □ -80 protection (i.e. fac □FO FR: □4 □-20 □ -80 suitable alternative Kidney □FO FR: □4 □-20 □ -80 protective equipm □FO FR: □4 □-20 □ -80 **Pancreas** □FO FR: □4 □-20 □ -80 Small Intestine (T with https://www.cdc □FO FR: □4 □-20 □ -80 Heart Blood (serum) FR: □4 □-20 □ -80

Non-Priority Tissues



FDA CVM COVID-19 Response

- One Health Federal Interagency COVID-19 Coordination Group (OHFICC) and Subgroup
- Drug Shortages
- Animal Food Safety
- Fraudulent Products
 - FDA has not approved any drugs for the diagnosis, cure, mitigation, treatment, or prevention of COVID-19 in animals
 - Ivermectin FAQ and consumer update
- Animal Health & Safety and COVID-19
 - fda.gov/animal-veterinary/outbreaks-and-advisories/animal-health-safety-and-coronavirus-disease-2019-covid-19



Animal Health & Safety and the Coronavirus Disease 2019 (COVID-19)

f Share

▼ Tweet In Linkedin

Email

Print

FDA's Center for Veterinary Medicine is a microcosm of FDA for animals – we regulate drugs, food, and devices for pets, livestock, zoo animals and others. Although COVID-19 is understood to primarily be a human disease, CVM and its stakeholders are experiencing the impact of the outbreak in other ways.

This page compiles information and resources available to industry members and consumers on Coronavirus Disease 2019 (COVID-19) and animal health and safety.

For additional information, see FDA's Frequently Asked Questions about Animals, Pets and Animal Drug Products (En Español) or visit FDA's main page Coronavirus Disease 2019 (COVID-19).

On this page:

Animal Drug Information | Animal Food Information | Animal Device Information Industry Support | Information for Consumers | Information for Veterinarians FDA Resources | USG Resources | How to Help | Contact Us

Recent Relevant FDA News

- August 19, 2020 FDA and OSHA Team Up to Publish Checklist to Assist Food Industry During COVID-19
- July 10, 2020 Coronavirus (COVID-19) Update: FDA prepares for resumption of domestic inspections with new risk assessment system

More Recent Relevant FDA News

I'm looking for COVID-19-related information on...

Animal Drugs

- FDA Issues Guidance on Reporting and Mitigating Animal Drug Shortages during the COVID-19 Public Health Emergency
- Coronavirus (COVID-19) Update: FDA Issues Guidance on Conduct and Review of Studies to Support New Animal Drug Development
- FDA Letter to Stakeholders: Do Not Use Chloroquine Phosphate Intended for Fish as Treatment for COVID-19 in Humans (En Español)
- FDA Letter to Stakeholders: Do Not Use Ivermectin Intended for Animals as Treatment for COVID-19 in Humans (En Español)
- FAQ: COVID-19 and Ivermectin Intended for Animals (En Español)

Content current as of: 02/24/2021

Regulated Product(s) Animal & Veterinary

Health Topic(s)

Why You Should Not Use Ivermectin to Treat or Prevent COVID-19

Subscribe to Email Updates f Share F Tweet in Linkedin Email Print

Content current as of:

Regulated Product(s) Animal & Veterinary

03/05/2021





COVID-19. We've been living with it for what sometimes seems like forever. Given the number of deaths that have occurred from the disease, it's perhaps not surprising that some consumers are looking at unconventional treatments, not approved or authorized by the Food and Drug Administration (FDA).

Though this is understandable, please beware. The FDA's job is to carefully evaluate the scientific data on a drug to be sure that it is both safe and effective for a particular use, and then to decide whether or not to approve it. Using any treatment for COVID-19 that's not approved or authorized by the FDA, unless part of a clinical trial, can cause serious harm.

There seems to be a growing interest in a drug called ivermectin to treat humans with COVID-19. Ivermectin is often used in the U.S. to treat or prevent parasites in animals. The FDA has received multiple reports of patients who have required medical support and been hospitalized after self-medicating with ivermectin intended for horses.

Here's What You Need to Know about Ivermectin

- FDA has not approved ivermectin for use in treating or preventing COVID-19 in humans. Ivermectin tablets are approved at very specific doses for some parasitic worms, and there are topical (on the skin) formulations for head lice and skin conditions like rosacea. Ivermectin is not an anti-viral (a drug for treating viruses).
- . Taking large doses of this drug is dangerous and can cause serious harm.

NEW Why You Should Not Use Ivermectin to Treat or Prevent COVID-19

https://www.fda.gov/consumers/consume r-updates/why-you-should-not-useivermectin-treat-or-prevent-covid-19

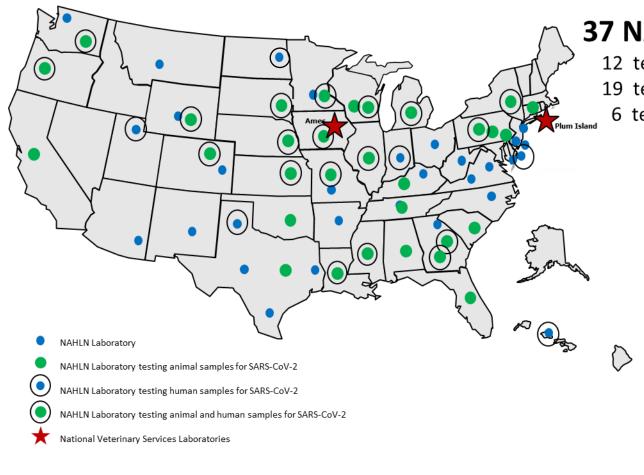
Ivermectin FAQ:

 https://www.fda.gov/animalveterinary/product-safetyinformation/faq-covid-19-and-ivermectinintended-animals

Is there a vaccine to protect animals from SARS-CoV-2?

- FDA has not approved any drugs for the diagnosis, cure, mitigation, treatment, or prevention of COVID-19 in animals
- U.S. Department of Agriculture's (USDA) Animal and Plant Health Inspection Service (APHIS) <u>Center for Veterinary Biologics (CVB)</u> regulates veterinary biologics, including vaccines, diagnostic kits, and other products of biological origin
 - APHIS CVB has not licensed any products to diagnose, treat, or prevent COVID-19 in animals

NAHLN Response to COVID-19 Part of a One Health Approach



37 NAHLN Laboratories test for SARS-CoV-2

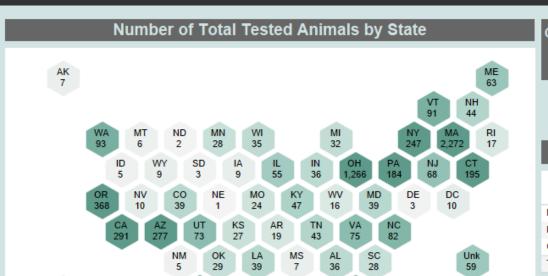
- 12 testing Animal samples only
- 19 testing Animal and Human samples
- 6 testing Human samples only*

* Approx. 2.3M Human sample tests performed

Lab tests performed on or before Thursday, April 15, 2021

Ш

Total Tested



111

FL

174

Confirmed Positive Non-farmed Animals Confirmed Positive Mink Farms

Presumptive Animals

172

16

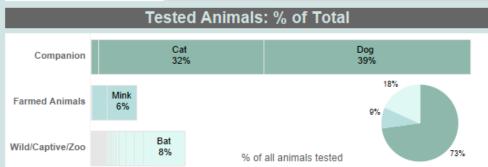
13

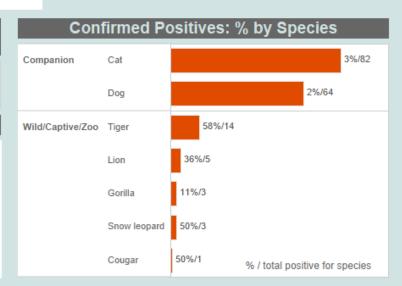
Testing Labs

| | Number of unique labs | Animal Count | % Animal Count |
|---------------------|-----------------------|--------------|----------------|
| NAHLN and NVSL Labs | 29 | 2,008 | 27.1% |
| Private Labs | 4 | 1,325 | 17.9% |
| Other Labs | 5 | 4,066 | 55.0% |
| Total | 38 | 7,399 | 100.0% |

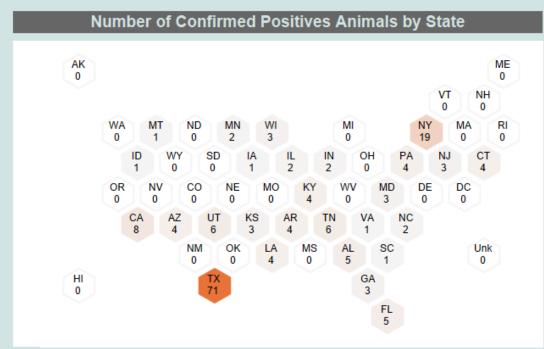
Notes: Presumptive positive cases have tested positive at a NAHLN, private, or other lab but have not been confirmed by NVSL testing. Mink are tested individually but are reported as positive by premises. The total number of tested mink premises is not available. Some of the tests do not have an animal group and therefore are excluded from the animal group and species totals and percentages.







Lab tests performed on or before Thursday, April 15, 2021



Confirmed Positive Non-farmed Animals Confirmed Positive Mink Farms

Presumptive Animals

172

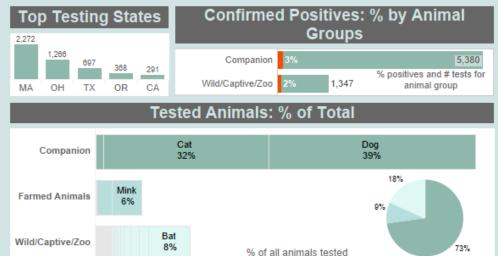
16

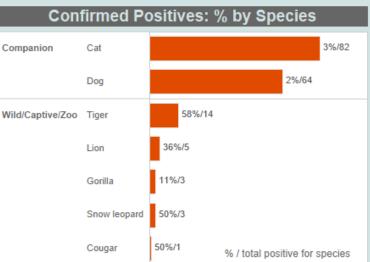
13

Testing Labs

| | Number of unique labs | Animal Count | % Animal Count |
|---------------------|-----------------------|--------------|----------------|
| NAHLN and NVSL Labs | 29 | 2,008 | 27.1% |
| Private Labs | 4 | 1,325 | 17.9% |
| Other Labs | 5 | 4,066 | 55.0% |
| Total | 38 | 7,399 | 100.0% |

Notes: Presumptive positive cases have tested positive at a NAHLN, private, or other lab but have not been confirmed by NVSL testing. Mink are tested individually but are reported as positive by premises. The total number of tested mink premises is not available. Some of the tests do not have an animal group and therefore are excluded from the animal group and species totals and percentages.





NEW! SARS-CoV-2: Updated Testing Strategies and Reporting Expectations for Companion Animal Samples

- New testing requirements at the National Veterinary Services Laboratories (NVSL):
 - Confirmatory testing at NVSL for a <u>dog or a cat is not required if</u> that same species from the same state has been confirmed at NVSL.
- Still required or recommended:
 - Confirmatory testing at NVSL
 - First dog or cat from a state
 - All other species with exception of only index mink on every farm
 - Serology:
 - NVSL recommends confirmatory testing if virus/serum neutralization methods were not used.
 - Sequencing:
 - Please submit all presumptive companion animal cases with Cts of 30 or less for whole genome sequencing at no cost to monitor the SARS-CoV-2 viruses for mutations.

NEW! SARS-CoV-2: Updated Testing Strategies and Reporting Expectations for Companion Animal Samples

USDA strongly recommends:

<u>All</u> presumptive positive animal cases should be immediately reported immediately to the State animal health officials and the State public health veterinarians so that appropriate investigations may be conducted.

Wildlife and Zoo Animals Subgroup Updates

Companion Animals (Working Animals)



CDC

Animal Diagnostics Wildlife and Zoo and Testing



FDA-CVM, USDA-NVSL

Animals







Production Animals

(previously Livestock)



USDA-APHIS

Environmental Health



ATSDR, CDC

SARS-CoV-2 in Big Cats in Sanctuaries: Webinar

TOPICS:

- Overview of the One Health Federal Interagency Coordination Group
- SARS-CoV-2 history, events, and clinical signs in big cats
- Worker safety and occupational health
- Using the Hierarchy of Controls approach to mitigate risks
- Importance of disease reporting and investigation
- Sample collection, testing, and diagnostics



One Health Federal Interagency COVID-19 Coordination Team: Wildlife and Zoo Group



SARS-CoV-2 Risks for Big Cats in Sanctuaries

April 8, 2021 | 3:00 to 5:00 PM EST

(2:00 to 4:00 PM CST/ 1:00 to 3:00 PM MST/Noon to 2:00 PM PST)

The One Health Federal Interagency COVID-19 Coordination (OHFICC) Team: Wildlife and Zoo Group would like to extend this invitation to a webinar on the SARS-CoV-2 Risks for Big Cats in Sanctuaries to sanctuaries that are accredited or verified by the Global Federation of Animal Sanctuaries, as well as members of the Big Cat Sanctuary Alliance.

The One Health team has assembled a great line-up of speakers for us that you don't want to miss! Join us to learn more about prevention, treatment, and the study of COVID-19 in big cats, as well as risk mitigation practices and disease investigation procedures for at-risk species cared for by your sanctuary.

Join the webinar on Zoom at:

https://us02web.zoom.us/j/88969578379?pwd=VXNzRHZDN0V4bXBoSE8xeG5FM3BCdz09

Although registration is not required, it is helpful to keep you updated on any scheduling changes as well as to provide follow-up documents and correspondences. Please RSVP to Kathy Blachowski by email at kblachowski@bigcatalliance.org or sign-up at https://forms.gle/61Npino1E9TcAJy37 - thank you!

Wildlife Guidance Website

On This Page

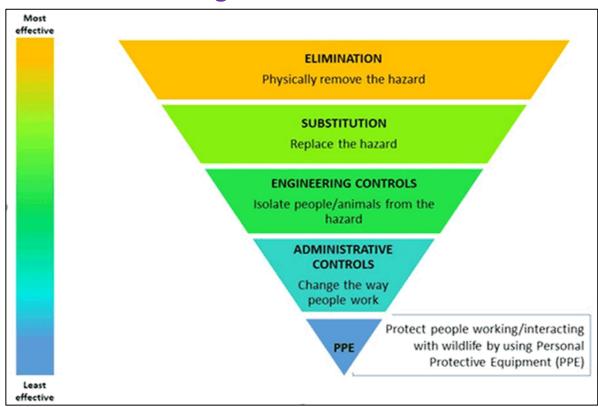
- Considerations for Members of the Public
- Considerations for Hunters
- Hierarchy of Controls to Reduce the Risk of SARS-CoV-2
 Spreading between People and Wildlife
- Considerations for State, Federal, Tribal, and Territorial Wildlife
 Agencies
- Considerations for Wildlife Rehabilitation Facilities
- Additional Resources

Wildlife Guidance Website

Reducing the Risk of SARS-CoV-2 Between People and Wildlife

https://www.cdc.gov/coronavirus/2019-ncov/your-health/wildlife.html

Using the Hierarchy of Controls to Develop Risk
Mitigation Measures



Production Animals Subgroup

Companion Animals (Working Animals)



CDC

Animal Diagnostics Wildlife and Zoo and Testing



FDA-CVM, USDA-NVSL

Animals



DOI USGS

Production Animals

(previously Livestock)











Environmental Health

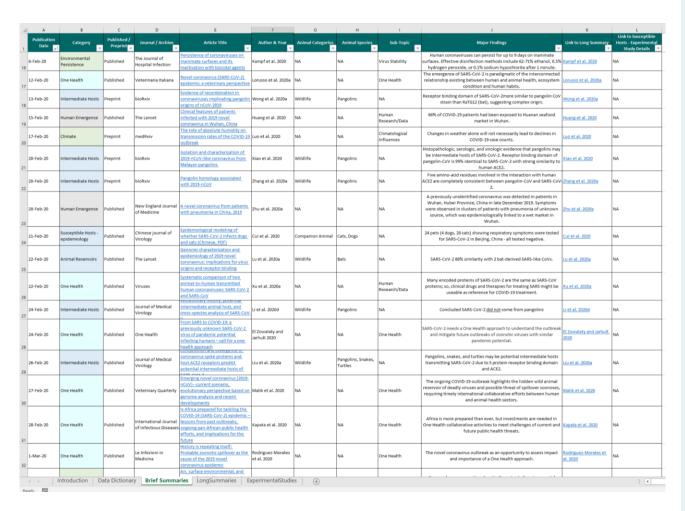


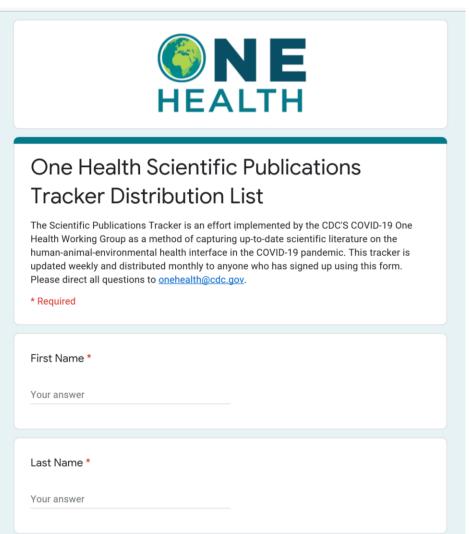
ATSDR, CDC

Research and Science Updates

- <u>Experimental SARS-CoV-2 Infection of Bank Voles</u> Ulrich et al. 2021, *Emerging Infectious Diseases*
- Experimental susceptibility of North American raccoons (*Procyon lotor*) and striped skunks (*Mephitis*)
 mephitis) to SARS-CoV-2 Francisco et al. 2021, bioRxiv (preprint)
- Myocarditis in naturally infected pets with the British variant of COVID-19 Ferasin et al. 2021, bioRxiv (preprint)
- The B1.351 and P.1 variants extend SARS-CoV-2 host range to mice Montagutelli et al. 2021, bioRxiv (preprint)
- One Health Investigation of SARS-CoV-2 Infection and Seropositivity among Pets in Households with Confirmed Human COVID-19 Cases - Utah and Wisconsin, 2020 – Goryoka et al. 2021, bioRxiv (preprint)
- SARS-CoV-2 B.1.1.7 variant of concern detected in a pet dog and cat after exposure to a person with
 COVID-19, USA Hamer et al. 2021, Research Square (preprint)

Sign up to Receive the Scientific Publication Tracker





Stay Connected for Future Updates!

Get the latest news from the CDC One Health Office



<u>Subscribe</u> to the One Health Newsletter



<u>Subscribe</u> to the Healthy Pets, Healthy People Newsletter



Sign up for ZOHU Call updatesWatch ZOHU recordings



onehealth@cdc.gov
www.cdc.gov/onehealth

For ZOHU inquiries:

zohucall@cdc.gov



Follow @CDC NCEZID on Twitter

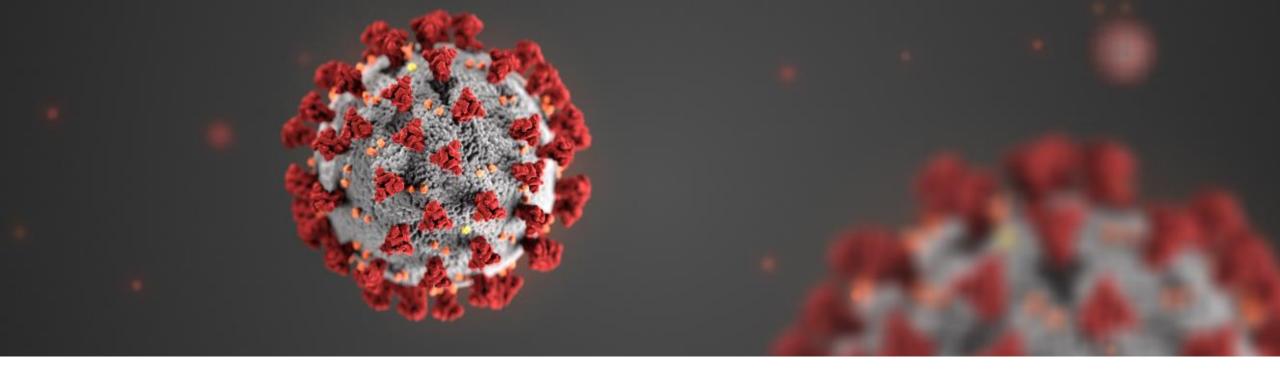
Future One Health Partners Monthly COVID-19 Webinars

- Third Tuesday of the month
- Next call:

Tuesday, May 18, 2021, 2:00 pm ET

If others are interested in being invited to this recurring call, please direct them to onehealth@cdc.gov





For more information, contact CDC 1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

OneHealth@cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

